

Figure 1

VH G250

D V K L V E S G G L V K L G G S L K L  
 1 GAC GTG AAG CTC GTG GAG TCT GGG GGA GGC TTA GTG AAG CTT GGA GGG TCC CTG AAA CTC

S C A A S G F T F S N Y Y M S W V R Q T  
 61 TCC TGT GCA GCC TCT GGA TTC ACT TTC AGT AAC TAT TAC ATG TCT TGG GTT CGC CAG ACT

H1

P E K R L E L V A A I N S D G G I T Y Y  
 121 CCA GAG AAG AGG CTG GAG TTG GTC GCA GCC ATT AAT AGT GAT GGT ATC ACC TAC TAT

H2

L D T V K G R F T I S R D N A K N T L Y  
 181 CTA GAC ACT GTG AAG GGC CGA TTC ACC ATT TCA AGA GAC AAT GCC AAG AAC ACC CTG TAC

L Q M S S L K S E D T A L F Y C A R H R  
 241 CTG CAA ATG AGC AGT CTG AAG TCT GAG GAC ACA GCC TTG TTT TAC TGT GCA AGA CAC CGC

S G Y F S M D Y W G Q G T S V T V S S  
 301 TCG GGC TAC TTT TCT ATG GAC TAC TGG GGT CAA GGA ACC TCA GTC ACC GTC TCC TCA

H3

CDRs H1, H2, H3

CDR definition according to Kabat scheme

## Figure 2

Primers used for PCR amplification of G250 VH and VL regions

5

Anchor and anchor poly C primers:

Anchor: 5'-GCA TGC GCG CGG CCG CGG AGG CC-3'

10 Anchor poly C: 5'-GCA TGC GCG CGG CCG CGG AGG CC(C)<sub>12</sub>-3'

Constant primers:

15 VH-primers: 5'-CTC TAA GCT TGG CTC AAA CAC AGC  
GAC CTC GGA TAC AGT TGG TGC AGC-3'

VL-primers: 5'-CTC TTC TAG AGA GTC TCT CAG CTG  
GTA GGA TAC AGT TGG TGC AGC-3'

Figure 3A

08.05.2001

double strand sequencing

HC\_cG250 (EcoRI-fragment in expression vector)

1 TCATGACATT AACCTATATAA AATAGGCGTA TCACGAGGCC CTTTCGTCCTT CAAGATCTCT TCAGATACAA AGAATCTCTA AACCTGAGG ACATTCCTATC 100  
101 ACAAAATAGT AAATTCAGA AAATTCGAA TGCTCCCATC ACAGAGATGA ATCTGCTATG AACAGCTCAT AGGTGTGAAG CTCACAAA GCCATATTAT 200  
201 TGAAAAGCCA CATTTGTGCC AGACTTTGGA AAGACTGAGC TCATATCCTG AAATACAGTT ATGTGTGGTT CTATCTAATT ACACATTTAC ACTAAGGAAA 300  
301 CATGGCAGTA TGGGAATGAA GCTTGTCTG TACACATTAA CAGAGGAAA CTAACAAAG TATGTGAAT CCCTAACCA AAGTAAAAA AAAAAAAA 400  
401 AAAAAAGAA AAAAAAAA AAGTGAACCT ACAATATGTT TCAAAATGCTG TAACTGAAAT CTGGTTTTTT GATGCCCTTAT ATCTGTTATC ATCAGTGACT 500  
501 TCAGATTTAG TCCAACTCCA GAGCATGGTA TAGCAGGAAG ACATGCAAAAT AGGTCTTCTC TGTGCCCATG AAAAAACCTT CGGCCCTGAC CCTGCAGCTC 600  
601 TGACAGAGGA GGCCGTGCTT GGATTCGATT CCCAGTTCCT CACATTCACT GATCAGCACT GAACACAGAC CCTCACCAT GAACCTCGGG CTCAGATTGA 700  
701 TTTTCCCTTGT CCTGGTTTTA AAGGTATCT TATTGACTAT AGAGGACATC TGCTGTATGC ACAGAGGTGC AGAAAAAATG TTGTTTGTGTT TTTTATAGTGA 800  
801 CAATGCTCCA AACAGTATTC TTTCTTTTGA GGTGTCTCTG GTACCGTGAA GCTCGTGGAG TCTGGGGAG GCTTAGTGA GCTTGGAGGG TCCCTGAAAC 900  
901 TCTCTGTGTC AGCCTCTGA TTCACTTTCA GTAACTATTA CATGTCCTGG GTTCGCCAGA CTCCAGAGAA GAGCTGGAG TTGGTCCGAG CCATTAAATAG 1000  
1001 TGATGGTGGT ATCACCCTACT ATCTAGACAC TGTGAAGGCC CGATTCACCA TTTCAAGAGA CAATGCCAAG AACACCTCTGT ACCTGCAAT GAGCAGTCTG 1100  
1101 AAGCTCGAGG ACACAGCCTT GTTTTACTGT GCAAGACACC GCTCGGGCTA CTTTCTATG GACTACTGGG GTCAGGNAAC CTCAGTCACC GTCTCCTCAG 1200  
1201 GTAAGAATGG CCTCTCCAGG TCTTTTTTTT AATCTTTGTA ATGGAGTTTT CTGAACATG CAGACTAATC TTGGATATTT GTCCCTGAGG TAGCCGGCTG 1300  
1301 AGAGAAATG GGAATTAAC TGTCTCGGA TCTCAGAGCC TTTAGGACAG ATTAATCTCCA CATCTTTGAA AAACCTGAGAT TCTGTGTGAT GGTGTGGTG 1400  
1401 GAGTCCCTGG ATGATGGGAT AGGGACTTTG GAGGCTCATI TGAGGGAGAT GCTAAACAA TCCATATGGCT GGAGGAGAG TTGGGGCTGT AGTTGGAGAT 1500  
1501 TTTCACTTTT TAGATATAA GCTTTAGCTG CGGGAATCC TTCAGGACCA CCTCTGTGAC AGCATTTATA CAGTATCCGA TGCATAGGGA CAAGAGCTG 1600  
1601 ACTGGGGCAC TTTCTTTTGA TTTGTGGGA ATGTTCCACA CTAGTTTCTG TGAACCTCA TTTGTGGAG GGAGAGCTGT CTTAGTGCCT GAGTCAGGG 1700  
1701 AGAAGGGCAT CTAGCCTCGG TCTCAAAAGG GTAGTTGCTG TCCAGAGAGG TCTGGTGGAG CCTGCCAAG TCCAGCTTTC AAAGGAACAC AGAAGTATGT 1800  
1801 GTATGGAATA ATAGAGATG TTGCTTTTAC TCTTAAATG GTTTCATAGGA AAAATAGTAA AAACCTGTAG TTTAAATGT GAGAGGGTTT TCAAGTACTC 1900  
1901 ATTTTATTAC ATGTCCAAA TTTCTGTCAA TCAATTTGAG GTCTTGTGTTG TGTAGAACTG ACATTACTTA AAGTTTAAAC GAGGAATGG AGTGAGGCTC 2000  
2001 TCTCATACCC, TATTGAGAAC TGACTTTTAA CAATAATAA TTAAGTTTAA AATATTTTTTA AATGAATGA GCAATGTTGA GTTGGAGTCA AGATGGCCGA 2100

LC\_cG250 (HindIII-fragment in expression vector)      double strand sequencing      10.05.2001

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4501 GAGATCTGGG TCTGACTGCA GGTAGCGTGG TCTTCTAGAC GTTTAAGTGG GAGATTTGGG GGGGATGAGG AATGAAGGAA CTTTCAGGATA GAAAAAGTCT 4600
4601 GAAGTCAAGT TCAGCTCCCTA AATGGATGT GGGAGCAAAAC TTTGAAAGATA AACTGAATGA CCCAGAGGAT GAAACAGTGC AGATCAAGA GGGGCCCTGGA 4700
4701 GCTCTGAGAA CAGAAGGAGA GTCAATTCGTG TTGAGTTTCC ACAATACTG TCTTGAGTTT TGCATATAAA GTGGGATAGC AGAGTTGAGT GAGCCATAGG 4800
4801 CTGAGTCTC TCTTTTGTCT CCTAAGTTT TATGACTACA AAAATCAGTA GTATGTCCCTG AATTAATCAT TAAACTGTTT GAAAGTATGA CTGCTTGCCA 4900
4901 TGTAGATACC ATGGCTTGCT GAATATCAG AAGAGGTGTG ACTCTTATTC TAAAATTTGT CACAAAATGT CAAAATGAGA GACTCTGTAG GAACGAGTCC 5000
5001 TTGACAGACA GCTCAAGGGG TTTTTCCT TTGCTCTCAAT TCTACATGAA AGTAAATTTG AATGATCTT TTTTATATTA ATAGTAGAAA TACAGTTGGG 5100
5101 TTGAACTAT ATGTTTAAAT GGCACCGGT TTGTAAGACA TTGGGCCCTT TGTTTTTCCCA GTTATTTACTC GCTTGTAAAT TTATATCGCC AGCAATGGAC 5200
5201 TGAACGGTC CGCAACCTCT TCTTTACAAC TGGGTGACCT CGCGGCTGTG CCAGCCATTT GCGGTTACCC TTGCCGCTAA GGGCCGTGTG AACCCCGAG 5300
5301 GTAGCATCCC TTGCTCCGG TGGACCCTT TCCTGAGGCA CAGTGATAGG AACAGAGCCA CTAATCTGAA GAGAACAGAG ATGTGACAGA CTACACTAAT 5400
5401 GTTAGAAAAA CAAGGAAGG GTGACTTAT GTGAGATTCA GAATAAAAAT GCATTTATTA TTATATTCCC TTATTTTAAAT TTTCTATTAG GGAATTAGAA 5500
5501 AGGGCATAAA CTGCTTTATC CAGTGTATA TTAAGACTT TTTTTCCTA AGTGCTA 5557
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Figure 3B.

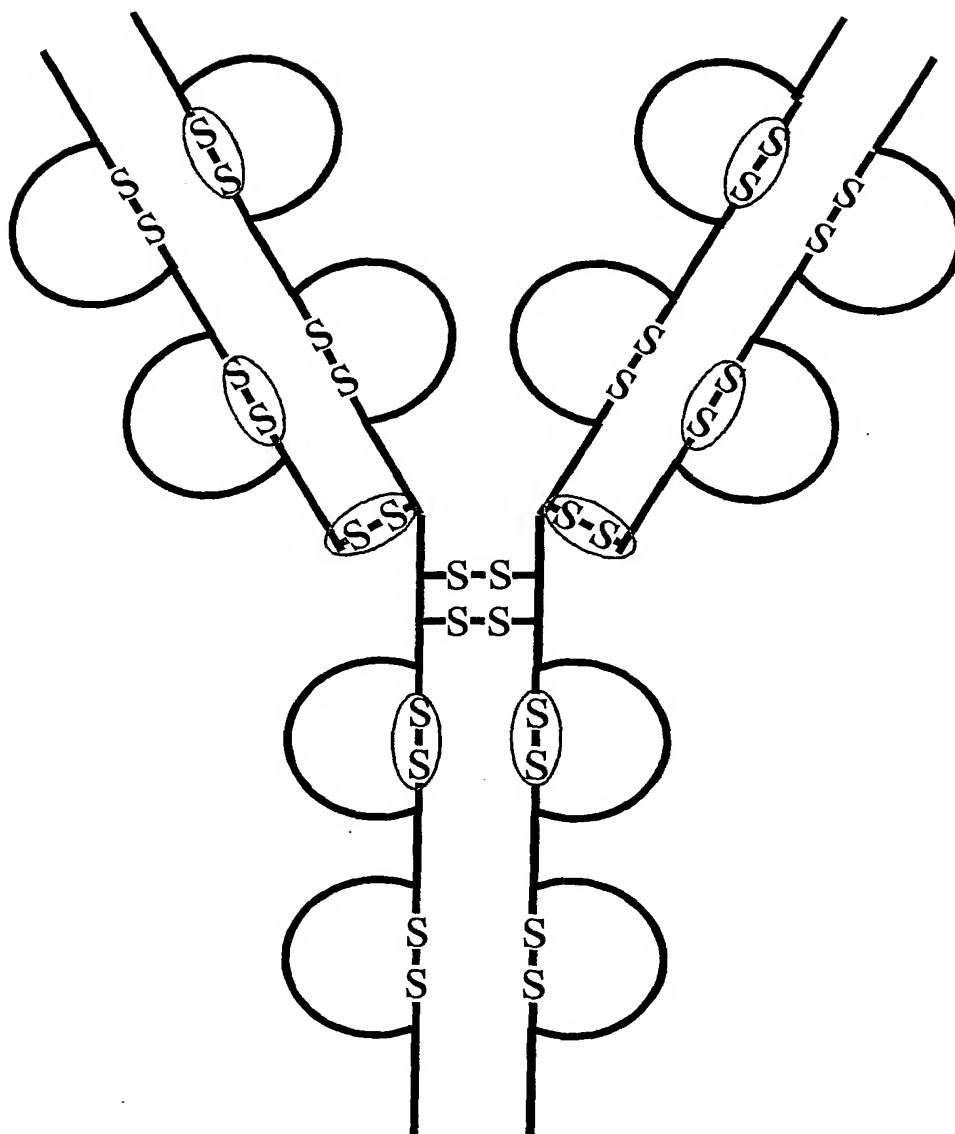
LC\_cG250 (HindIII-fragment in expression vector)      double strand sequencing      10.05.2001

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1 AATTCACAGC TTTGTATCTT CAGATCCAGG AAAGCCACCA CCAATATCAA ACAGATACAT GCTGAACCA ACITCTGTTC TTATGTCAA TGCACAGCG 100
101 GCATCTGACA CTGCCCTGCAT GAAGGTCTCA GGTCATATACT TCCACTACAC ACATGGAAGC TGACACCAAT GACGTCAATA TTTAGCTCTT TTGCCCATTT 200
201 CAGGAGGAGA CTGCTGGTTT TGAAGTGGC ACCAGACTTA ACACCAAGTC GACAAACTGC TTTGGAATCA TCTGTGACAA TCCACAAAA CAACCTTTGTC 300
301 TTACAATGTG CTCTGACGAC ATTCATCAAT TCATTTCACT GTCAAAAAGTC ATCATCTGGA CTCCATTACT GGCAGCATAC TTGATTTGAG ACACCTTGTTT 400
401 ACAAAAATGT GCATAGTAA TCCTCTCTGG AGGAACCAAGA AGCCCCCGTT CCAACTGTAT TTCAGTCTTG CTTGCACAGT CAAATCCTGT ACCAATAGCA 500
501 GCTAGGGTGT TAACTATGGC TCTGTTGTCC TTACACTTGA CTGCACAAAA AGGAATAACA TTCGGAAGAG CTTTITAGCCA CCTCAGATGC TTCTTTTAA 600
601 TGTCTCTGAG GTCCGGAAAC TAGAAGAAG AGACTTCAAT TATTAATTTTG TGTTCAGAAAT GTCTTTAGCA CTAAGGCCAC CATCTATGAT ACAGCAGTCA 700
701 AACTCTTCTT TAGTATAGCT GCTCATCGTT CTCCATGTGC CTACAGAAAA CCTAGACATG GAATTAATTT ATTGCCAGCC CCTTACAAGG TCAACTTATC 800
801 CAAGAACTGT GAATGCAGAC TCCTTGAAAT GTTGGAAACA CTCACAGCAC AGGGTCAAGA CTGGCTGGAC ACATGGAGAC ACTGAATCCT GAAGAGCACT 900
901 TAGCTGTCTG TTGCTTCATC ATGTCTACTG ACCTGAGGTG GCACCAAGCT GCTTACTGAG GGAGGACTGT GCGGGTGTCT GCAGGAACCTG ACAATCTCTC 1000
1001 ACAATCTCTT TACTGCCCCA CTCATTAATC TTCTCTTCTC CATCTTCTTC TTTCTTTTCT CTCCCTCTCT TTTTCCCTTT CACTACTTTT TTCCCTTTCT 1100
1101 CTTTCCACT TCCCTTTTCT TTCTTCTTTT GCTGTTGCTG TTGTAAGGA TTTATTTGTTT CCTCGTGATT GAACCAAGG TAGTTGTACT ATTATTTCTG 1200
1201 TAAAACTCAT CTGTGATTTT TCTATTAAAT AATTAAATTT GTTTACACTC CATATTTTAT TCAACCCCTC CATCCTCCTA CTGGTCTACA TACCATACCT 1300
1301 CTTTCCACA CCCCCTCTC CACATGGATG CTGCCACCTC CCATGCCACC TGACCTCTCA TCTCCCTAGG GCATCTAGTC TCTTGAGGCT TAGATGCATC 1400
1401 ATTTCTGAGT GAACACAGAT CCAACAATCC TCTGCTATAT GTGTGTTGTT GGCTCATAG CAGCTGGTGT ATGCTGCCCTG TTGTTTGATC CAGTGTTTGA 1500
1501 GAGGTCTCGC GGGTTTCAGAT TAATTGAGAT TGTGAGACCT CCTCAGCGTC TTTTCAGTCTT TCCCTGATTC AACCAACAGG TTCATTGTTT CTGTTTCATG 1600
1601 GTTGGGTGCA AATATCTGCA TCTGACTCAG CTGCTTATTT GGCTCTCTGG AGTGCAGTCA TGCTAGGTCC GTTTCATATGA GTGCTCCATA GCCTCAGTGA 1700
1701 TAGTGTACAG CGTTGGGACT GCGCCCTTGAC CTGGAATCTA TTTTGGACCT GTGCTGGGAC CTTCCTTTCC TCAGGCTCCC CTCCATCTGT ATCCCTGTAA 1800
1801 TTCTTTTACA CAGGAACANA TATGGGTGAG AGTTGTGAGT GTGGAATGGC ACCCCCTTCC CTCAATTAAT GCCCTGTCTT CCTGGTGGAA GTGGGCTCTA 1900
1901 TAAGTTCCCA CTCCCTACTG TTGGGCAATTT CATCCCTTTG AGTCTGAGA GTCTCTCACC TCCCAGGTCT CTGGGCAAT CTGGAGGGTC CTCCCACT 2000
2001 CCTACCTCCC CAGGTTGCTT GTTGACAGAC TTCTGCTGGC CCCCAGTGCT TCAGTCTCTT TCCCTCACCC AATATCTGAT TTGGATGGAA GCCTGTCTATG 2100
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HC_cG250 (EcoRI-fragment in expression vector)	double strand sequencing	08.05.2001
2101 TCAGAACCCAG AACACCTGCA GCAGCTGGCA GGAAGCAGGT CATGTGGCAA	GGCTATTTGG GGAAGGGAAA ATAAACCAC TAGGTAACT TGTAGCTGTG	2200
2201 GTTTGAAGAA GTGGTTTGA AACACTCTGT CCAGCCCCAC CAAACCGAAA	GTCCAGGCTG AGCAAAACAC CACCTGGGTA ATTTGCATTT CTAAARTAG	2300
2301 TTGAGGATTC AGCCGAACT GGAGAGGTCC TCTTTTAACT TATTGAGTTC	AACCTTTTAA TTTTAGCTTG AGTAGTTCTA GTTCCCCCA ACCTAAGTTT	2400
2401 ATCGACTTCT AAATGTATT TAGAATTCAT T		2431

LC\_cG250 (HindIII-fragment in expression vector) double strand sequencing 10.05.2001

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2101 AGAACATCTA TATACTGTG GTTCAGAGC TTAAATGG TCCTGAGCT TCTATTTGA GTTCCTTTC AGTAATTACT TGCCTGCTTT GGTAGTACTT 2200
2201 TTGACTGTTT ATTAACTCG GAACTCTCA TACAGCTGTG TAATTTACTT CCTATTTGA TGACTGCTTT GCATAGATCC CTAGAGGCCA GCCAGCTGTC 2300
2301 CCATGATTTA TAAACCAAGT CTTGCAAGT AGATCTGAAA TACATCAGAA CAGCATGGGC TTCAAGATGG AGTTTCATAC TCAGGTCCTT GTATTCGTGT 2400
2401 TTCTCTGGTT GTCTGTGTG AATTTTAAA GTATTATAAC ATCTCAAAAAG TAATTTATTT AATAGCTTTT TCTATAGGA AGCCAAATAT AGGCAGACAA 2500
2501 TGCCATTAGA TAAGACATTT TGAATCTAA CATTTGTGTC AAAAATCTTT GTATATATAA GTGTTTACTC ATTATCTATT TCTGATTGCA GGTGTTGATG 2600
2601 GAGACATTTG GATGACCCAG TCTCAAGAT TCATGTCCAC AACAGTAGGA GACAGGGTCA GCATCACCTG CAAGGCCAGT CAGAAATGCG TTTCCTGCTGT 2700
2701 TGCTGGTAT CAACAGAAAC CAGGACAATC TCTTAAACTA CTGATTTACT CAGCATCCAA TCGGTACACT GGAGTCCCTG ATCGCTTCAC AGGCAGTGG 2800
2801 TCTGGGACAG ATTTCACCT CACCATPAGC AATATGCAGT CTGAAGACCT GGCTGATTTT TTCTGTCAAC AATATAGCAA CTATCCGTGG ACGTTCGGTG 2900
2901 GAGCACCAA GCTGGAAATC AAACGTAAAT AGAATCCAAA CTCTCTTTCT TCCGTTGTCT ATGTCTGTGG CTTCTATGTC TAAAAATGAT GTAGATATTT 3000
3001 TTCTCTGTAG ACCAGATTCT GTCACTCTCC AAGGCAAGA TACATAGTCA CTCCGTAAGC AGAGCTGGGA ATAGGCTAGA CATGTTCTCT GGAGAATGAA 3100
3101 TGCCAGTGTA ATAAATTAACA CAAGTGATAG TTTCAGAAAT GCTCAAGAA GCAGGTAGC CTGCCCTAGA CAAACCTTTA CTTGGTGCTC AGACCATGCT 3200
3201 CAGTTTTTGT ATGGGGTTG AGTGAAGGA CACCAGTGTG TGTATACGTT CGGAGGGGG ACCAAGCTGG AAATAAAAG TAAGTTGTCT TCTCAACTCT 3300
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3701 GACGAGAAC AAAAATCTAG CTACTGTATA AGTTGAGCAA ACAGACTGAC CTCATGTCTAG ATTTCTGGGA GAATGAGAA AGGAACAGTT TTCTCTGAA 3800
3801 CTTGGCCCTAT CTAACCTGAT CAGCCTCAG CAGGTTTTTG TAAAGGGGG CACAGTGATA TGAATCACTG TGATTCAGT TCGGCTCGG GACAAAGTTG 3900
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4001 TCCTGGCAAC CTGTGCATCA ATAGAGATC CCCCAGAAA GAGTCAGTGT GAAAGCTGAG CGAAAAACTC GTCTTAGGCT TCTGAGACCA GTTTTGTAA 4100
4101 GGAATGTAG AAGAAAGAC TGGGCTTTTC CTCTGAATTT GGCCCATCTA GTTGGACTGG CTTACAGGC AGTTTTTGT AGAGAGGGGC ATGTCATAGT 4200
4201 CCTCACTGT GCTCAGTTC GGTGCTGGGA CCAAGCTGGA GCTGAACGTT AAGTACACTT TTCTCATCTT TTTTATATGT TAAGACACAG GTTTTTCATGT 4300
4301 TAGGAGTTAA AGTCAGTTCA GAAATCTTG AGAAATGGA GAGGGCTCAT TATCAGTTGA CGTGGCATAC AGTGTACAGT TTTCTGTTTA TCAAGCTAGT 4400
4401 GAGATTAGG GCAAAAGAG GCITTAGTTG AGAGGAAAGT AATTAATCT ATGTCACCA TCCAGAGAT TGGACCGGAG AATAGCATG AGTAGTTATT 4500
```



**Figure 4**

Schematic figure of an antibody. Disulfide bonds detected by mass spectrometry after enzymatic digest in WX-G250 are labeled by ovals.



Figure 5

Characterization of WX-G250 according to MALDI-PMF (Trypsin, LysC, AspN, GluC, and BrCN) in reflector and linear mode

**Light Chain:**

DIVMTQSQR F MSTTVGDRVS ITCKASQNVV SAVAWYQQKP  
 -----  
 GQSPKLLIYS ASNRYTGVPD RFTGSGSGTD FTLTISNMQS  
 -----  
 EDLADFFCQQ YSNYPWTFGG GTKLEIKRTV AAPSVFIFPP  
 -----  
 SDEQLKSGTA SVVCLLNIFY PREAKVQWKV DNALQSGNSQ  
 -----  
 ESVTEQDSKD STYSLSSTLT LSKADYEKHK VYACEVTHQG  
 -----  
 LSSPVTKSFN RGE

**Heavy Chain:**

DVKLVESGGG LVKLGGSLKL SC AASGFTFS NYYMSWVRQT  
 -----  
 PEKRLELVAA INSDGGITYY LDTVKGRTI SRDNAKNTLY  
 -----  
 LQMSSLKSED TALFYCARHR SGYFSMDYWG QGTSVTVSSA  
 -----  
 STKGPSVFPL APSSKSTSGG TAALGCLVKD YFPEPVTVSW  
 -----  
 NSGALTSGVH TFP AVLQSSG LYSLSVTV PSSSLGTQTY  
 -----  
 ICNVNHKPSN TKVDKKVEPK SCDKHTCPP CPAPELLGGP  
 -----  
 SVFLFPPKPK DTLMISRTPE VTCVVVDVSH EDPEVKFNWY  
 -----  
 VDGVEVHNAK TKPREEQYNS TYRVVSVLTV LHQDWLNGKE  
 -----  
 YKCKVSNKAL PAPIEKTISK AKGQPREPQV YTLPPSRDEL  
 -----  
 TKNQVSLTCL VKGFYPSDIA VEWESNGQPE NNYKTTPPVL  
 -----  
 DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ  
 -----  
 KSLSLSPGK

————— Reflector mode  
 ----- Additional information  
 from linear mode spectra

□ Detected bridged cysteins (reflector mode)  
 ○ Detected bridged cysteins (linear mode)  
 C: Cystein not determined as bridged cysteins  
 (K) Heavy chain partially lacks C-terminal lysine



Confirmed glycosylation site



Confirmed deamidation sites

Light chain:

DIVMTQSQRF MSTTVGDRVS ITCKASQNVV SAVAWYQOKP GQSPKLLIYS  
ASNRYTGVPD RFTGSGSGTD FTLTISNMQS EDLADFFCQQ YSNYPWTFGG  
GTKLEIKRTV AAPSVFIFPP SDEQLKSGTA SVVCLLNNFY PREAKVQWKV  
DNALQSGNSQ ESVTEQDSKD STYSLSSTLT LSKADYEKHK VYACEVTHQG  
LSSPVTKSFN RGEC

Heavy chain:

DVKLVESGGG LVKLGGSLKL SCAASGFTFS NYMSWVRQT PEKRLELVAA  
INSDGGITYY LDTVKGRTI SRDNAKNTLY LQMSSLKSED TALFYCARHR  
SGYFSMDYWG QGTSTVTVSSA STKGPSVFPL APSSKSTSGG TAALGCLVKD  
YFPEPVTVSW NSGALTSGVH TFPAVLQSSG LYSLSSVVTV PSSSLGTQTY  
ICNVNHNKPSN TKVDKKVEPK SCDKTHTCPP CPAPELLGGP SVFLFPPKPK  
DTLMISRTPE VTCTVVVDVSH EDPEVKFNWY VDGVEVHNAK TKPREEQYNS  
TYRVVSVLTV LHQDWLNGKE YKCKVSNKAL PAPIEKTISK AKGQPREPQV  
YTLPPSRDEL TKNQVSLTCL VKGFPYPSDIA VEWESNGQPE NNYKTTTPVL  
DSDGSFFLYS KLTVDKSRWQ QGNVFSCSVM HEALHNHYTQ KSLSLSPGK

**Figure 6: LC-MS and LC-MS/MS of tryptic digest of cG250**